

MD 528 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW MAST ARM POLE TO REPLACE AN EXISTING DAMAGED POLE JUST PRIOR TO THE TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 528 (PHILADELPHIA AVENUE) AND 15TH STREET IN WORCESTER COUNTY. MD 528 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION CURRENTLY OPERATES IN A NEMA FIVE-PHASE FULLY TRAFFIC-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR NORTHBOUND MD 528, AND ALTERNATE PEDESTRIAN PHASE FOR CROSSING THE SOUTH LEG OF THE INTERSECTION. NO PHASE CHANGES ARE PROPOSED AS PART OF THIS PROJECT.

CONTROLLER REQUIRMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL REMAIN.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

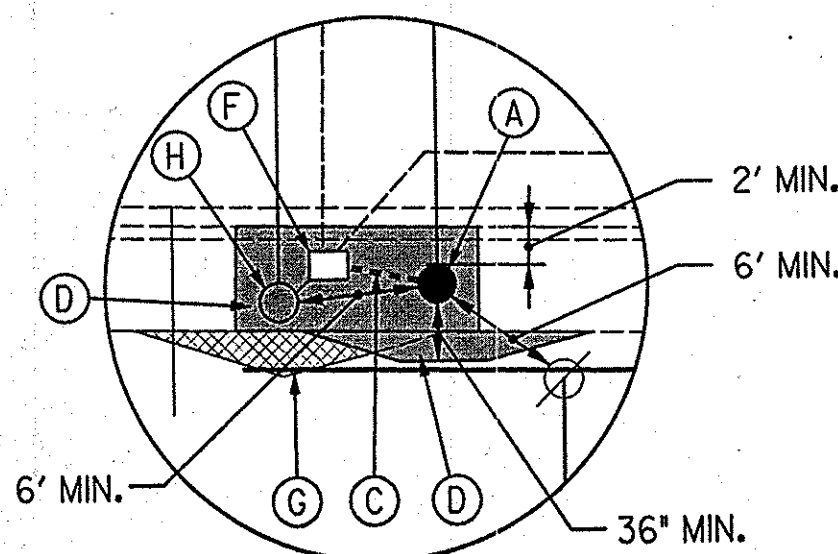
ITEM NO.	DESCRIPTION	UNIT	QTY.
9001	FURNISH 27' MAST ARM POLE WITH 50' MAST ARM	EA	1
9002	SHEET ALUMINUM SIGNS 1-W11-8(1) 72"X36" (FY)	SF	18

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CAT. CODE	ITEM NO.	DESCRIPTION	UNIT	QTY.
120500	1001	MAINTENANCE OF TRAFFIC	LS	1
203030	2001	TEST PIT EXCAVATION	CY	1
585625	5001	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	LF	45
655104	6001	INSTALL 4 IN. CONCRETE SIDEWALK	SF	80
800000	8001	DISCONNECT, PULL BACK AND RE-ROUTE EXISTING CABLES	LF	75
860284	8002	12 INCH LED TRAFFIC SIGNAL HEAD SECTION	EA	4
800000	8003	8 INCH LED TRAFFIC SIGNAL HEAD SECTION	EA	2
866204	8004	INSTALL MAST ARM POLE & 50' MAST ARM	EA	1
800000	8005	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT	EA	1
805135	8006	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	10
813015	8007	INSTALL OVERHEAD SIGN	SF	18
802501	8008	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	10
861107	8009	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	20
801004	8010	CONCRETE FOR SIGNAL FOUNDATION	CY	2.7
800000	8011	REMOVE EXISTING FOUNDATION 1' BELOW GRADE	EA	1

INSET-1

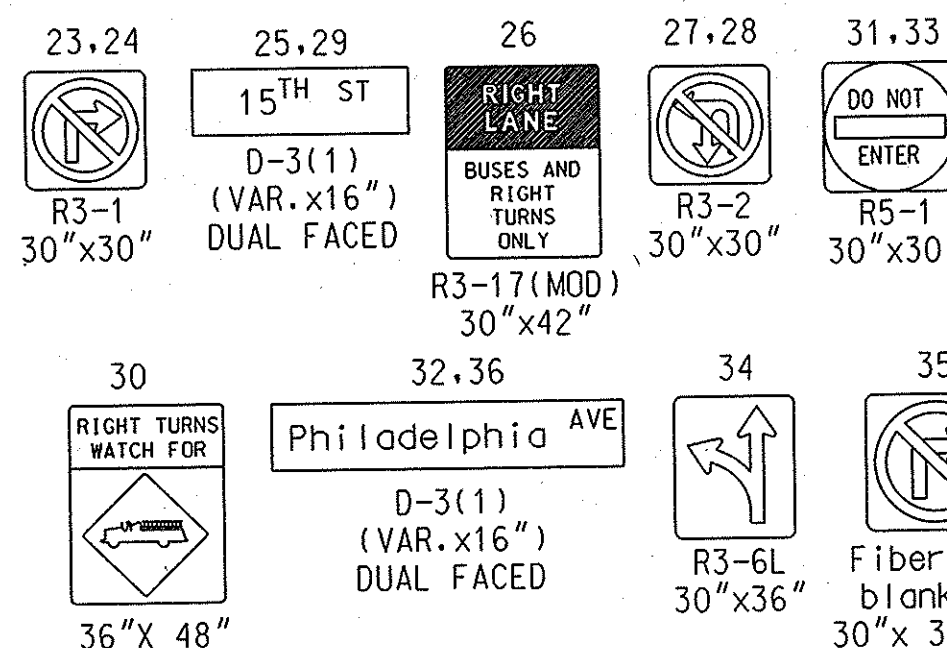


NOT TO SCALE

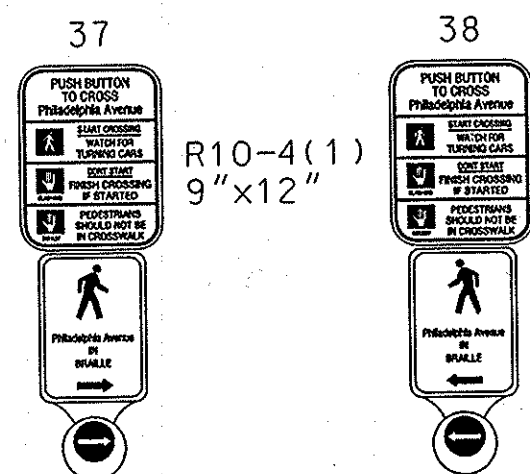
LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A	A
ELECTRIC	E	E
TELEPHONE	T	T
GAS	G	G
SEWER	S	S
WATER	W	W
CABLE TV	TV	TV

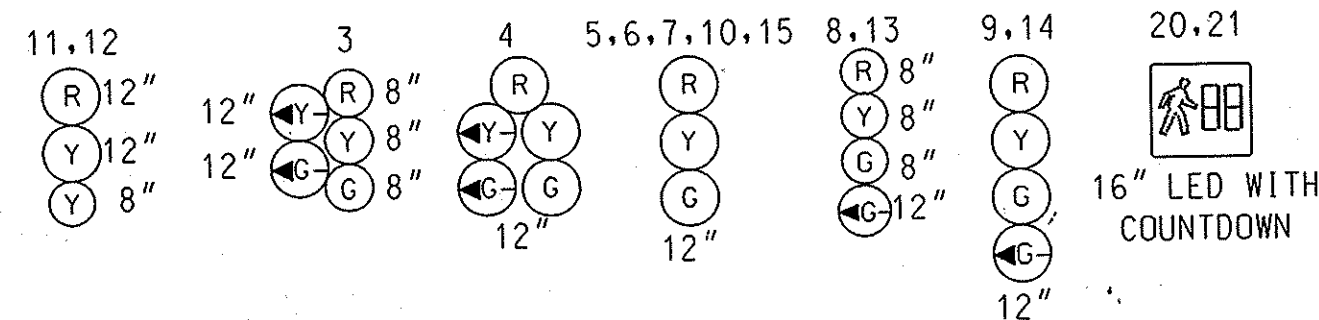
EXISTING SIGNS TO REMAIN



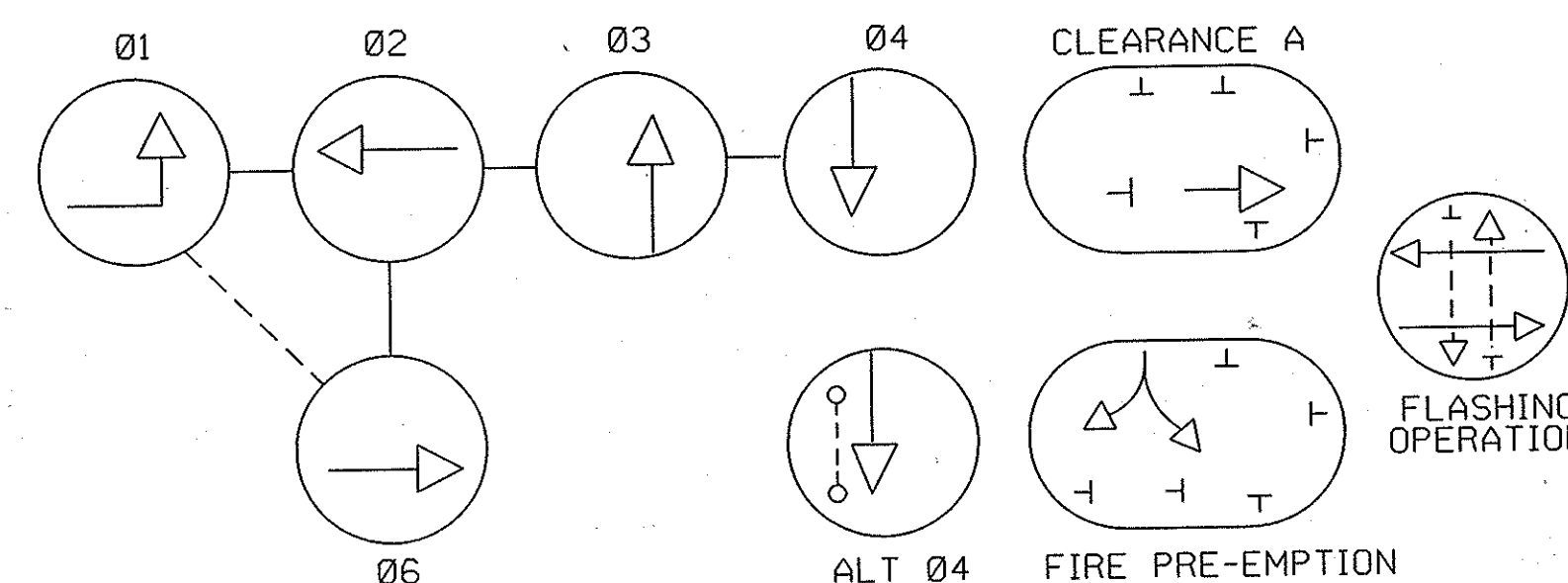
EXISTING AUDIBLE PUSHBUTTON AND SIGN TO REMAIN



EXISTING SIGNALS TO REMAIN



NEMA PHASING



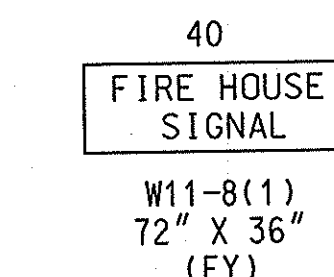
PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

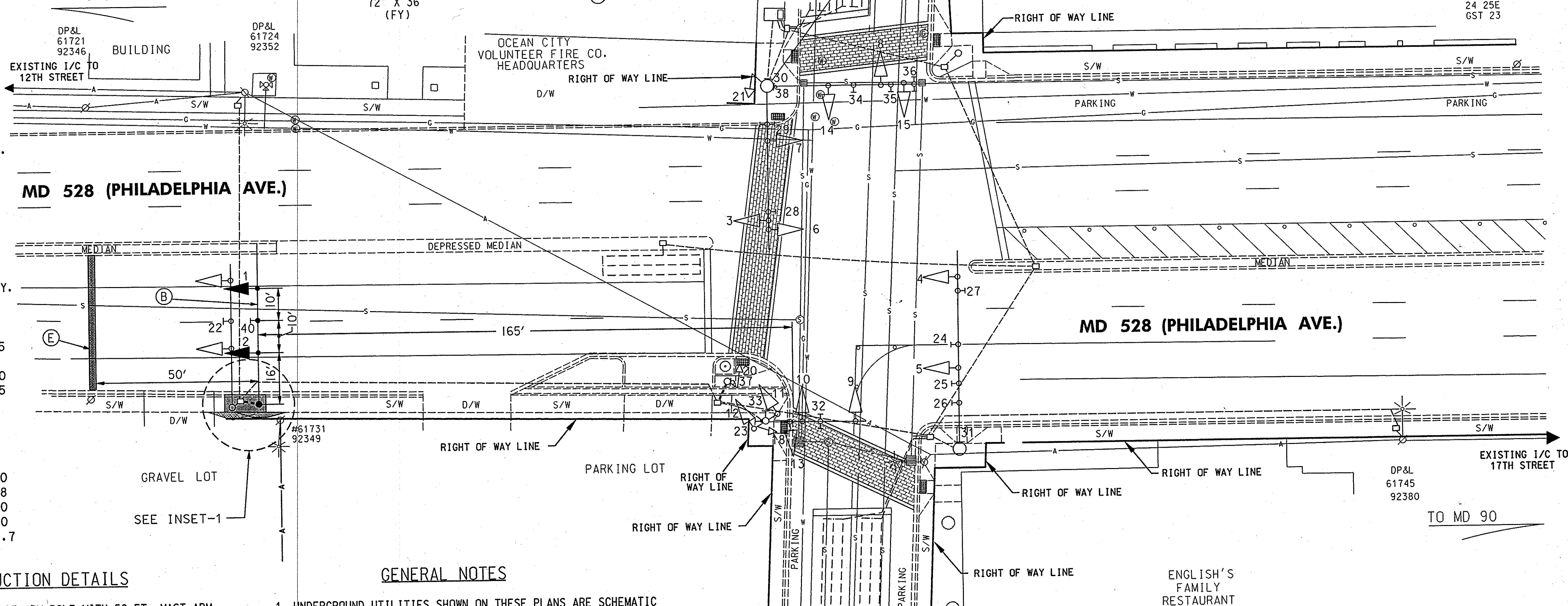
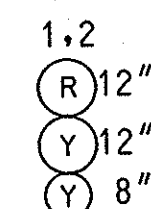
EXISTING SIGNS TO BE REMOVED



PROPOSED SIGNS



PROPOSED LED SIGNALS (BLACK FACED)



GENERAL NOTES

1. UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
4. UNUSED ELECTRICAL CABLES SHALL BE REMOVED AND DISPOSED.
5. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

CONSTRUCTION DETAILS

- A. INSTALL 27 FT. MAST ARM POLE WITH 50 FT. MAST ARM, LED SIGNAL HEADS AND SIGN. (NOTE: INSTALL 1-3 IN. PVC CONDUIT BEND IN POLE BASE)
- B. INSTALL 5-CONDUCTOR (NO. 14 AWG) JUMPER CABLE BETWEEN SIGNAL HEADS
- C. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
- D. INSTALL 4 IN. CONCRETE SIDEWALK
- E. INSTALL 24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
- F. USE EXISTING HANDHOLE: PULL BACK EXISTING 5-CONDUCTOR ELECTRICAL CABLE FROM THE EXISTING POLE AND RE-ROUTE THROUGH THE NEW 3" CONDUIT TO SIGNAL HEAD #2 ON THE NEW MAST ARM POLE. (NOTE: INSTALL #6 BARE COPPER GROUND WIRE BETWEEN POLE BASE AND EXISTING GROUND ROD IN THE EXISTING HANDHOLE)
- G. REMOVE EXISTING SIDEWALK
- H. REMOVE EXISTING MAST ARM POLE, SIGNAL HEADS, SIGN AND ASSOCIATED EQUIPMENT. REMOVE FOUNDATION TO 1 FT. BELOW FINAL GRADE

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APPROVALS
TEAM LEADER
ASST. DIR. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

REVISIONS
01-15-07
TO REPLACE EXISTING DAMAGED POLE
SHA NO. 1
TC 10/1/07
G. INSTALL COUNTDOWN PED 01-31-06
SIGNALS WITH APS PUSHBUTTONS AND
SIGNS SHA NO. 1 AT 3558185
F. REMOVE U-TURN PHASING &
PED X-ING ON N. LEG. GEOM.
CHANGES ON S. LEG. SHA NO. 1

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION	
MD 528 (PHILADELPHIA AVENUE) AT 15TH STREET OCEAN CITY, MARYLAND	
TRAFFIC SIGNAL PLAN	
SCALE 1" = 20'	DATE JULY 10, 1995 CONTRACT NO. WO-479-001-185
DESIGNED BY LISA HANDY	COUNTY WORCESTER
DRAWN BY LISA HANDY	LOGMILE 23052807.57
CHECKED BY STEVE RENZI	TIMS NO. 1309
FAP NO.	TOD NO.
TS NO. 571H	DRAWING - OF SHEET NO. 1 OF 1

PLOTTED: 5/24/2006
FILE: 571H